Target Math Class 5 Term 1

- 1. Rom in numerals.
- 2. Notation and place value
- (S digit numbers in Pakistani and International way)"
- Addition
- 4. Subtraction
- Multiplication.
- 6. Division
- 7. Simplification
- 8. Divisibility
- 9. Factors
- 9. Multiples Multiples
- 10. Common Multiples
- Common Multiples
- 11. Prime and Composite numbers

p # 1-5 (from Book Get Ahead 5) p #001, 002, 003(from target)

p #004(from target)
p #005(from target)
p #006(from target)
p #007, 008(from target)
p #009, 0010, 0011(from target)
p # 6-13 (from Book Get Ahead 5)
p #0012(from target)
p # 14-21 (from Book Get Ahead 5)
p # 22 -23(from Book Get Ahead 5)
p # 2014(from target)
p # 24(from Book Get Ahead 5)
p #0014(from target)
p # 25-27(from Book Get Ahead 5)

Write first ten multiples of 14,8,6,15,9,7.

Write first ten multiples of these pairs of numbers and find their common multiples.

- 2. 12 and 18
- 3. 10 and 5
- 4. 12 and 8

Thinking even b-i-g-g-e-r: 8-digit numbers

What happens when we add 1 more to 99999999 (the biggest 7-dight number)?

On our Pakithtami place-value chart, something very special happens: we run out of lacs, and need to add a new house or period: the double of Chores:

: T	· ,				·	_				
 -	ŢĊ	<u> </u>	<u> </u>	cs	Thou	sands	<u> </u>	Unit		7
ŀ		T.C.	1 T [L	TTh	Th	H	T	} 	┨
			9	9	9	y	9	9	10	$\ $
-	[,] 9	
L		1	0	0	0	_				
			<u></u>	<u>-</u> -1			0	0	0	İ

'C' means 'crores' and 'TC' (the next column to the left) means 'ten crores'—a giant-sized outsiter with 9 digits!

A. Write the num4. ** mest

8 00.00 000 more,

- 1. 4.00.00.000
- **2**. 6.00.00.000
- **3** 2.00.00.000
- **4.** 5 00 00.000
- **5**. 9.00.00,000



B. Write the number:

* three area 3,00,00,000

eight crore

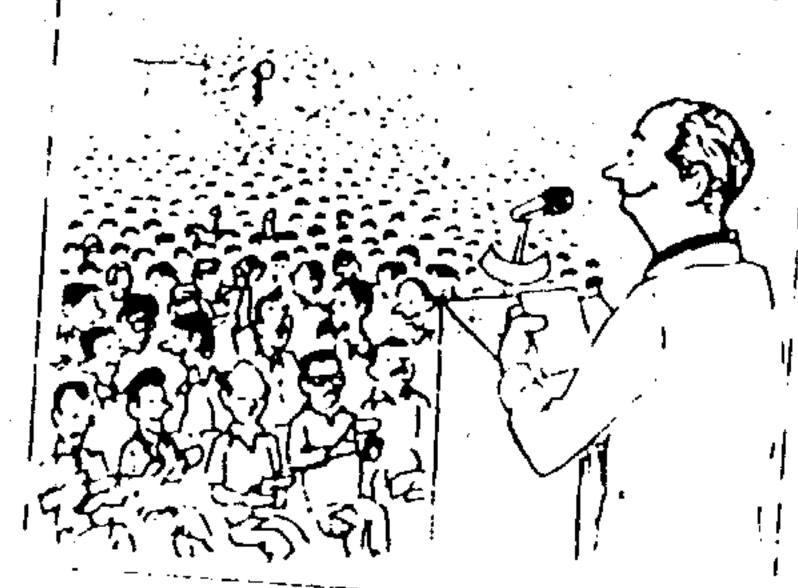
seven crore

d two crore rane crore One crore is the smallest 8-digit number in the Pakistani piace-value system.

Water well per to the news on the radio, or water. TV programmes about Pakistan's education, or read newspaper articles, we will often meet this word.

it helps us to think in terms of very large

If one crore people con a to happing the me Minister speak, he or sha wal he very happy indeed!



C The following list gives the total number of votes won in seven constituencies in Pakistan Place each number in Pakistani corrects. Which constituency has the largest number of voters?

Constituency A. 386219 3,86,219

Constituency Bi 208678

Constituency Communication

Constituency D: 271200

Constituency E: 29475,

* Constituency F: 269802

Constituency G +15389

Here is another 8-digit number placed in Pakistani periods:

7178174

Its number name is five crore, twelve lac, sixty-four thousand, eight hundred and twenty-one.

A Place these numbers in Pakistani periods and write their nan es:

4.06.85.012 four crore Six lac, eighty-five thousand and twelve

67300159

30846002

73052814

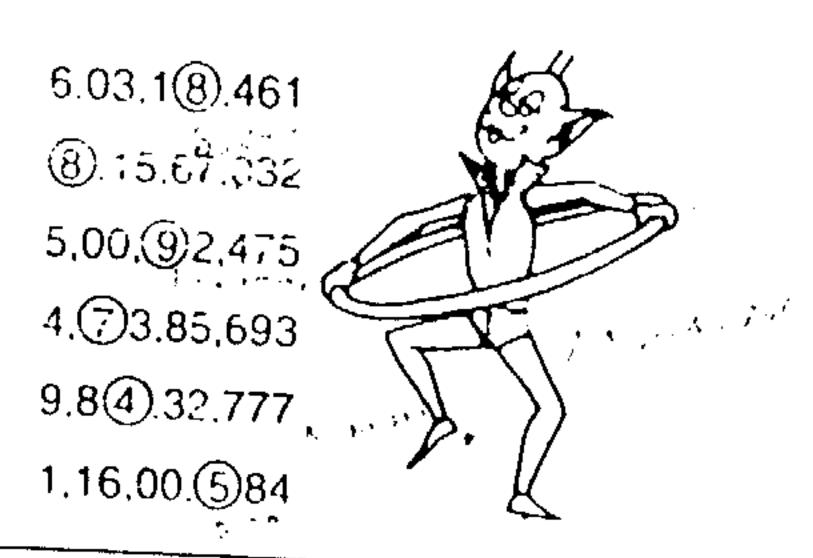
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58964371

- B. Write the numbers, placing your commas carefully:
 - five crore, one lac, twenty thousand and sixteen 5.01.20.016
 - three crore, eleven lac, forty-two thousand, three hundred
 - 2 eight store, thin, lac, nineteen thousand, four hundred and sixty-one
 - 3 four crore, eighty-six lac fig, thousand and ninety-two
 - six crore, forty-nine thousand, seven hundred and three
 - seven crore, three hundred and fifty-six

C Write the value of the ringed digit

4.①0.62,938



D Write in expanded form:

5.26.49 032 5.00,00,000 + 20,00,000 + 6.00,000 + 40,000 + 9,000 + 30 + 2

- 6,18.30.596
- **2** 7.05,12,847
- **3** 1,10,95,738
- 4 4,00 67,143
- **5** 5,94,03,075

 $T^{-\infty} \sim$

One crore equais ien million

and is written 1,00,00,000

But if we use the word 'crore' in most other parts of the world, nooddy will understand what we mean!



On our monatte shall be an alter the smallest 8-digit humber is called the nellest and is shown like this:

• • •	23	Th)USA1	1.35 		Un ta	
	٠,١	-1Th	T Th	Τ'n	Н	†	U
1	9.	0	0	O.	0	0	0
					٥.		

A. Write the number names:

46,030,100 forty-six million thirty thousand, one hundred

- 38,100,580
- 2 51.069,120
- 3. 19,405,328
- **4** 72.617.134
- **5** 60 174,005

Place these in periods, first in the Pakistani way, second in the international way:

40396425

38106259

12450031

41965478

73812096

~ 26794502

C Ante the numbers, placing your commas parefully

and twenty server 18,004,027

- thirty-one million five hundred and ten thousand six hundred and three
- forty-nine million one hundred and three thousand five hundred and eighty-two
- seventy-eight million four hundred thousand eight hundred and twelve
- 4. twenty million six hundred and thirty-seven thousand five hundred and fifty-true
- 6. eighty-eight million and fifteen

Adding very big numbers with 7 or 8 digits is simple, provided we are careful to write our columns neatly and carefully, and to work

When we finish adding we must also remember to put in our periods.

Copy and complete:

1 .	1,984,623 + 2.015,34£	6	+	23,569,23: 5,694,325
2.	14.07.156	7.	• -	4.468.571
つ	0			

- Write in vertical form and complete (be careful with your columns!):
 - 1. 3.564,121 ÷ 2,473,565
 - **2**. 82.14.960 12.28,340
 - **3**. 4.693,775 + 5,184,962
 - 4. 16.49,827 + 49,16,782
 - 5. 2.655,132 + 2.984 + 34,103
 - **6.** 1.030,499 + 38.324 + 5,687
 - **7.** 39.862 + 410.364 + 2.003.145 8. 465 + 2.49.00.321 + 1.092

 - **9.** 5.62,43.018 + 32 + 51,673
 - 10. 84.65,321 + 7,495 + 1.18.626

Using ing mumbers: subtraction

humbers, we're always careful with our columns. 2.8, 4.9, 7, 2.8.4. 1.3, 9.4.2, 0.9.6. 1.2, 5.5.5, 1.6.8

A Copy and complete:

- 1. 1.496,953 6. 45,647,329 - 205,343 - 14,538.142
- 2. 4,875,648 7. 1,64,00,825 - 1,232,537 - 79,36,172
- 3. 28,64,932 **8.** 50,100,032 - 14,18,725 - 28,052,164
- 4. 51.95,438 **9.** 2,70.03,029 38.41,654 1,08,16,420
- 5. 6.032,159 **10.** 30,000,000 3.470,538 15,457,628

8: Write in vertical form and complete:

- 1. 85,231,569 16,829,293
- 2. 98,486,243 72,639,958
- 3. 2,00,00,360 38 ₇₄₅
- **4.** 4,16.05.152 1.78.34.018
- **5**. 45,003,620 37,598,132
- **6.** 3.175.002 698,435
- **7.** 5,62,41,650 2,18,64,137
- 8 4.000.351 25,689
- **9**. 32.034.629 1,465,117
- **10** 8.60,03.814 65.17.298

as Work with bigger numbers: inultiplication:

23,915 (5983 x 5)
23,93,200 (5983 x 400)

2,841,925

1 Copy and complete:

495 ___834

x 540

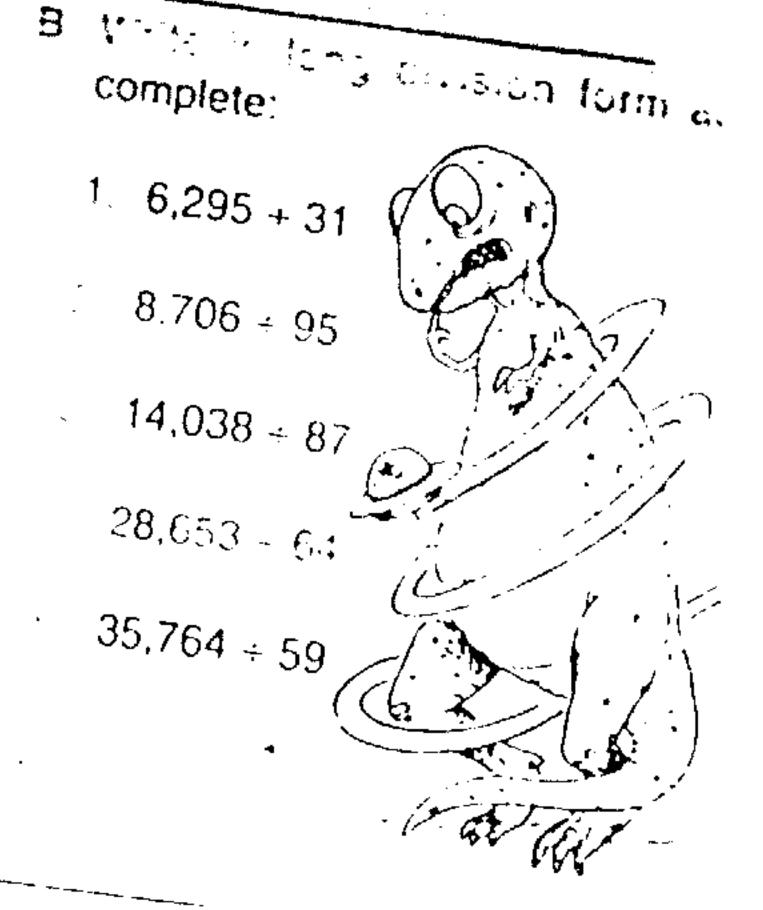
2.405 ' 321

B Write in vertical form and complete

1. 3, 847 x 431 3 9
9, 525 x 860 6
6,098 x 607 4
2,7,346 x 398 7 5
5,174 x 872 x x
10,193 x 757 4
8
11,627 x 196 3
5,198 x 188
13,967 x 232

····ibers. C.

	S. C.	100
Wat -		
Provided we go com	Cends is	****
Drowned we go carefully s	tep by step	
	- , U	
I MANY EE		
/ " OZ / /	14,766	r 38
	826,934	_
How many 56s	<u> </u>	ĺ
("' < 00 /	266	_
We guess 4:	· 224	
$56 \times 4 = 224$	429	-
How many 56s	392	
1 "' 749/	373	. [
We guess 7.	336	
$56 \times 7 = 392$,
.	374	
How many 56s Remainder	336	11
We guess 6:	= 38	
$56 \times 6 = 336$		
Ours		
Our answer = 14,766 r 3	R.R.	
		į



A Complete, working very

29) 32,497

24) 18 726

31) 49.E08

25 51 072

44) 68,795

Copy and complete, working as carefully as you can:

248) 32,561

330) 45,695

187) 29,364

485) 50.678

643) 72,996

Division: 3-cigit divisors.

thysors	w to work with 2-dig
We follow exactly the work with 3-digit divisiones):	of greven bigge
Our example:	- 331
How many 381s in 483? Easy: 11	1269 r 270
•	381 483.759
How many 381s in 1027? Our guess: 3	381
381 x 3 = 1143 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	1027 762
How many 381a in	2655
We guess 7:	3699 14 47 3429
$381 \times 7 = 2667 \Rightarrow 7$ $381 \times 6 = 2286$	r = 270
How many,381s in 3699? Guess: 9 '81 x 9 = 3429	
Jr answer = 1,269 r 27	0

B Write in long division form and complete:

1. 46,028 + 384 52,169 + 416 75,673 - 649 34,396 - 457 28,932 + 535 15,721 + 464 56,439 - 719 49,868 + 637

. 561,324 + 446

The four operations: ordering (simplification).

We now know how to add, subtract, multiply and divide using very big numbers.

But so far we've been doing each of our four operations separately:

For example:

146,329

+ 84,651

230,980

or $384 \times 100 = 38.400$

Sometimes, however, we need to do this or more of our four operations to solve a sum.

Look at this example:

$$9-6+3\times2+1=?$$

We need all four of our operations to solve this sum.

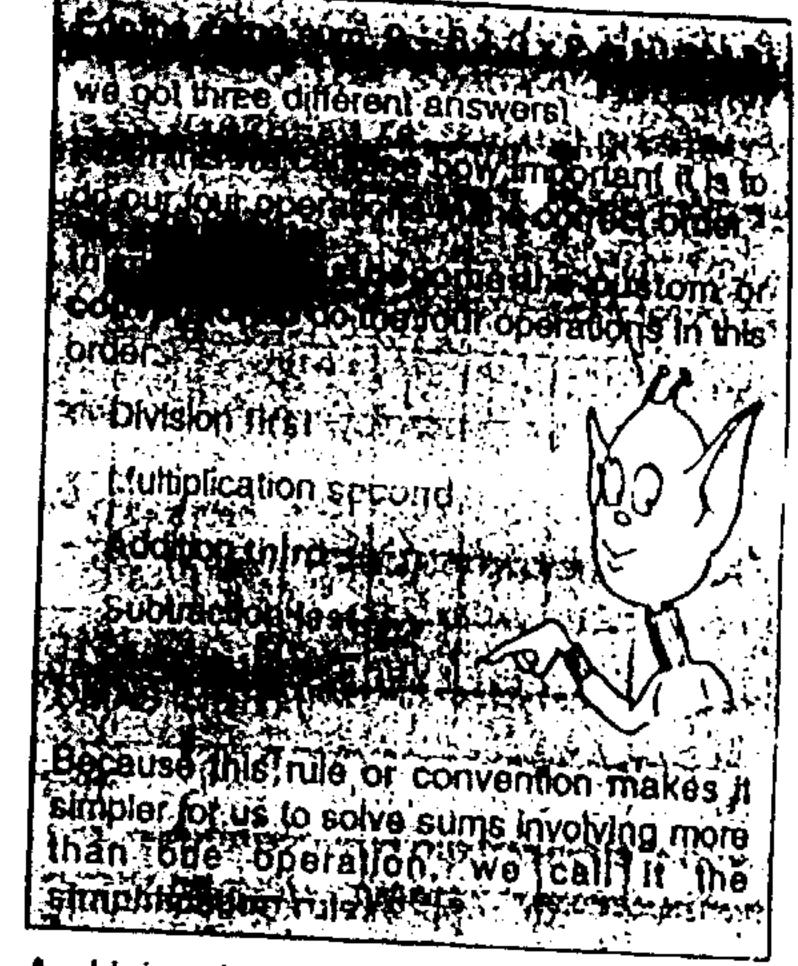
But In what order should we do them?

Let's see what happens when we solve the sum in 3 different ways:

2. We next divide: 3. We multiple 4. Last, we article	$9 - 6 - 3$ $3 + 3 = 1$ $1 \times 2 = 2$ $2 + 1 = 3$

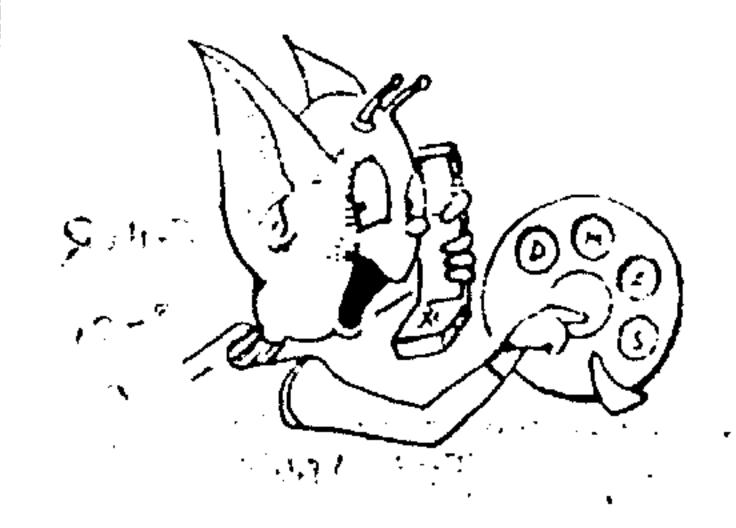
SALL	
We addWe multiply:	2+1=3
3 We divide	$3 \times 3 = \frac{9}{9}$ $6 + 9 = \frac{6}{9} = \frac{2}{3}$
4. Last we subtract:	

	Answer = 6
4 We add:	5+1=6
3. We subtract:	9 - 4 = 5
2. We multiply:	2 x 2 = 4
1. Weldforder	5 - 3 = 2



A Using the simplification rule, DMAS solve these some

6+4-3 $6\times5-5$ $11+2\times8$ 30+6+3 58+2+12 10-3-3 $12+4\times5$ $12+4\times5$ 16+8+2



At Now simplify these, Using your C Remember your DMAS rule and DMAS rule:

- \star 16 8 + 4 (divide (irst) 8 + 4 = 2
 - របស់ស្គាស់គេជីទី
- 1 $12 \times 6 = 3$ 15 $\times 42 = 14$
- $7 \times 10^{-1} = 108 \pm 12 \pm 46$
- $\frac{14-21+3}{20-16+4}$
- 4.58 24 = 8 9 $17 + 5 \times 20$
 - $70 8 + 2 = 10 81 4 \times 14$

We follow the same DMAS rule when we work with 3 different operations: -

example:

From our DMAS rule, we know we should multiply first:

What we do `	Our sum becomes
1. We multiply: 2 x 4 = 3	ο̂ · 3
2. Vio. vio. 16 + 3 ± 11	· ; ;
3 (25) subtraction 44 + 8 = 3	14-3=0
Answer: 6	$+2 \times 4 - 8 = 6$

B Now simplify these:

- $3 \times 2 8 5$
- $128 4 + 12 \times 5$
- $6 \times 5 + 12 \div 4$
- $12 \times 4 + 6 + 2$
- $5.25 \div 5 + 4 \times 3$
 - $18 \times 6 \div 2 24$

simplify these:

- 1. $7+6+2\times18$
 - $9.5 \times 15 = 3 = 49$
 - $\pm 121 \pm 11 \pm 5 \times 20$
 - $3 16 + 9 3 \times 2$
 - $= 8 \times 14 = 7 10$
 - 2 25 + 35 ± 7 x 12
 - $3.84 \pm 12 \times 3 6$
 - $48 \times 3 102 + 14$

Let's now try a sum involving all four operations:

example: 12 x 4 + 6 + 2 - 11

Our sum bridome.
12 4 4 5 11
1. • 3 ~ 11
3+-11
51 11

Think carefully, then simplify

- $18 + 4 \times 6 \div 2 7$
 - $25 = 5 \times 3 + 6 = 12$
 - 3 x 12 3 + 20 + 5
 - $31 + 24 + 8 \times 9 39$
- $= 45 \div 5 + 7 \times 11 20$
- $9 \times 12 + 18 \div 6 16$
- $14 + 28 \div 7 \times 3 17$
- $-7 \times 50 + 32 \div 8 121$

So far, we've used brackets in sums involving contained epications, for example, add tool and subtraction, subtraction and multiplication.

But they are also very helpful in more complex sums with three or even four operations.

To help us decide the order in which to do the operations, we use three different types of brackets:

- 1. The : ()
- 2. The decision of man-brackets { } and
- 3. The square bracket:[]

If we find all three types of brackets used in a sum, we simplify in this order:

- 1. The part of the sum in the state 3...
- 2. The part in Acole of
- 3. The part in

. !

For example, look at this sum:

All three types of bracket are used.

We tire tackle the part in round brackets:

$$(8-4)=4$$

.... we simplify the part in double brackets

$$\{16+4\}=20$$

We do the square trackets part

A Working carefully, copy and simplify these sums:

$$4 + [15 - \{7 + (6 - 2)\}]$$

 $6 = 2 = 3$ (round brackets)
 $1 - 3 = 12[a - 2iu brackets]$
 $4 + 5 = 9$

$$24 - [5 + \{8 - (9 - 6)\}]$$

$$2 \times [18 - \{6 + (9 - 3)\}]$$

$$[30 - (16 + 8)\} \times 12$$

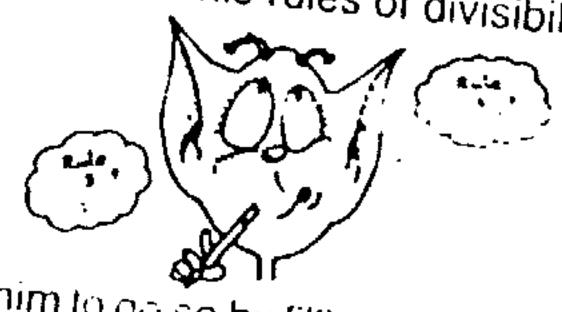
$$[100 - \{80 + (20 \times 2)\}] + 3$$

$$80 + [10 \times \{16 - (9 - 6)\}]$$

$$\frac{80 + [10 \times \{16 - (8 + 2)\}] + 3}{\{45 + (83 \times 3)\} - 16}$$

counterway 4, we leave that they sweld! of divisibility. They helped us find out, 1. kly and easily, which factors make up a number (in other words, by what numbers it can be divided with on temaindiry

A Sid Spacewalker is trying to remember his rules of divisibility:



Heip him to do so by filling in the blanks: Any a imber with 5 or a in the

column is divisible by 5.

-. Any Rich number must be dr. s.bie by 2.

A number whose digits add up to a multiple of 3 is divisible by =

All numbers which are divisible by 9 have digits that add up to a multiple

An example of a number which is divisible by 5 and by 10 is ____

- Which of these numbers is divisible
 - 149
- 306
- 5.481 82.602
- 6.073 ° 19.400
- C. Which ar mose numbers is divisible
 - 1. 60300332
 - **3.** 7,155,534
 - 2. 49 15 495
- 4. 17.03.760
- errite down six 7-digit numbers which are divisible by 9.

(an easy one);

Look at these multiples of 10

100, 17.100, 300,640, 7.032,790

They all have a 0 in the units

- * Any number . -
- Tick the numbers which are divisible
 - 1, 4,960
- **4**, 720,395
- 2. 3.701
- 5. 11.624.340
- 3. 11.000
- 6. 75,06,248

Test 6

Let's take the number 584, and look at the tens and units digits:

Can 84 (the number formed by the tens and units) be divided by 4?

Yes, it can: 84 + 4 = 21

This tells us that 584, too, is divisible by 4.

We can divide to check:

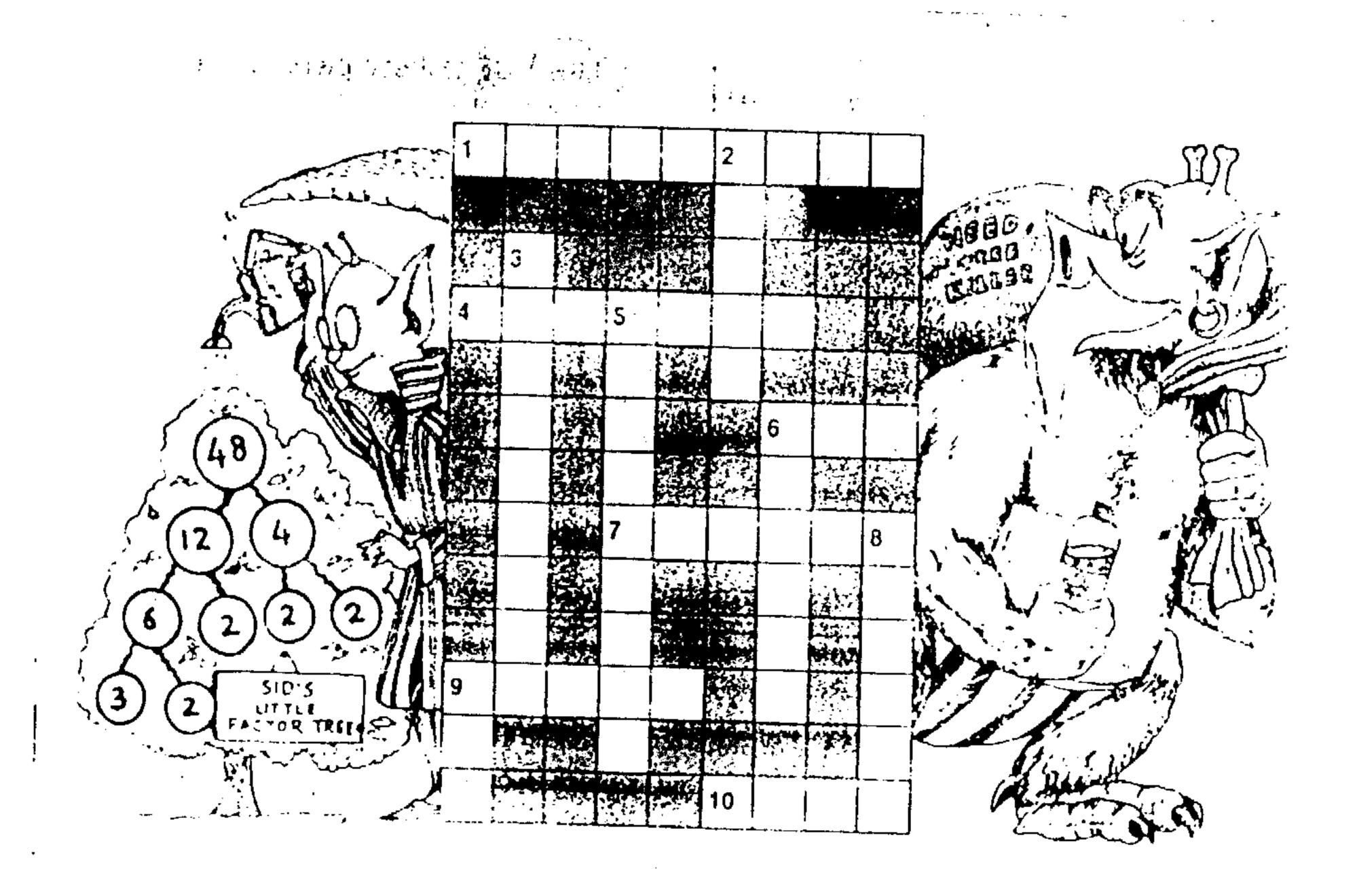


146

24

584 + 4 = 146 r 0A number is

- formed by the three area Frankling Paris
- F. Which of these is divisible by 42
 - ō29
- 23,656
- 2 3 426
- 117,305
- 3 5**0** 5 4. 17,504
- 282.072 8. 3,645,064



் 4, 6, 8, 10 and 12 are a ப்பிப்பிரு the number 2.

Two numbers which have any i as their common factor are called numbers.

On a number line 1-12 the next greatest prime number atter five is

The number eight har their of limitable factors.

- A number with any two different factors (itself and to sinalled a African number.
- <u>िकाम्बिल</u> numbers have more than two different factors.

A multiple is a number an or can be designed to the control of the

The LONG And Annual Contract of the Contract o

The LCM of 4 and 6 is 17.

Number 1 is a <u>Fails</u> of every number.

12 43 13 and 30 are all multiples of the number 3